

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

224



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/836,926	04/17/2001	Bruce K. Ho	LIVEP001	9036
22434	7590	07/15/2004	EXAMINER	
BEYER WEAVER & THOMAS LLP P.O. BOX 778 BERKELEY, CA 94704-0778			NGUYEN BA, PAUL H	
			ART UNIT	PAPER NUMBER

2176

DATE MAILED: 07/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/836,926	HO, BRUCE K.	
	Examiner	Art Unit	
	Paul Nguyen-Ba	2176	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06/30/2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Notice to Applicant

1. This action is responsive to Request for Corrected Filing Receipt filed on June 30, 2001.
2. Claims 1-20 have been considered. Claims 1 and 11 are independent claims.

Priority

3. This application claims benefit of provisional patent applications: 60/198,344 filed on 04/18/2000; 60/035,477 filed on 06/12/2000; 60/219,284 filed on 07/19/2000; and 60/238,553 filed on 10/10/2000, under 35 U.S.C. 119(e).

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Art Unit: 2176

5. Claims 1, 2, and 10-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Arora et al. ("Arora"), U.S. Patent No. 5,911,145.

Independent Claim 1

Arora teaches a *computer readable medium containing program instructions for providing data to a web page* (see Abstract), comprising:

computer readable code for allowing a user to form a hierarchical tree comprising a plurality of nodes (see Figs. 4-6; col. 2, lines 17-33 *et seq.*; col. 5, lines 41-45; col. 6, lines 44-57 *et seq.* → page objects and page icons are also called "nodes");

computer readable code for allowing the user to select a node (Figs, 9 and 10; col. 7, lines 16-30; col. 8, lines 31-37) *from the hierarchical tree, wherein the selected node has at least one attribute* (see Fig. 7; col. 7, lines 31-45 → i.e. number, type, name, current layout, flags, siblings, parents, etc.); and

computer readable code for allowing a user to bind the at least one attribute to the web page (see Figs. 22, 23, and 30; col. 2, lines 38-44; col. 11, lines 53-55 → user can bind attributes using a "drag-and-drop" or WYSIWYG interface and then automatically generate HTML for each page in accordance with the display elements of each page).

Claim 2

Arora teaches the medium wherein the *selected node has peers* (see Figs. 5(a) and 5(b) → i.e. siblings), and wherein the medium further comprises code for *automatically binding the peers of the selected node to the web page* (col. 2, lines 59 *et seq.*; col. 7,

Art Unit: 2176

lines 16-30 → moving a node within a hierarchical tree, automatically moves and binds the entire effected tree structure (including children and sibling nodes) to the web page).

Claim 10

Arora teaches the computer readable medium, as recited in claim 1, further comprising computer readable code for *dynamically changing the web page when the at least one attribute to which the web page is bound is changed* (see Abstract; Fig. 4; col. 2, lines 30-33; 44-67 *et seq.* → invention will automatically update the web page when an attribute is changed (add, remove, delete, etc.)).

Independent Claim 11

Arora teaches a computer readable medium containing instructions for managing a network of computers, comprising:

computer readable code for allowing a user to form a hierarchical tree comprising a plurality of nodes (see Figs. 4-6; col. 2, lines 17-33 *et seq.*; col. 5, lines 41-45; col. 6, lines 44-57 *et seq.* → page objects and page icons are also called “nodes”); and

computer readable code for allowing a user to bind nodes of the hierarchical tree (see Figs. 22, 23, and 30; col. 2, lines 38-44; col. 11, lines 53-55 → user can bind attributes using a “drag-and-drop” or WYSIWYG interface and then automatically generate HTML for each page in accordance with the display elements of each page).

Claim 12

Arora teaches the computer readable medium further comprising computer readable code for *providing a plurality of links for at least one service chain, wherein the computer readable code for allowing the user to bind the nodes, comprises computer readable code for allowing a user to bind a node to a link of the plurality of links* (see

Art Unit: 2176

Abstract → This layout contains display elements that represent the links between pages of the site. The present invention automatically adds, removes, and deletes the appropriate links between the pages of the site as the user moves display elements).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 3-9, 13-17, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arora et al. ("Arora"), U.S. Patent No. 5,911,145.

Claims 3 and 4

Arora teaches a computer readable medium wherein the computer readable code for allowing a user to bind the **at least one or more** attributes (see Fig. 7; col. 7, lines 31-45 → i.e. number, type, name, **current layout**, flags, siblings, parents, etc.) to the web page, comprises:

computer readable code, which allows the use of point and click techniques to select a region on the web page (see col. 1, lines 54-58; col. 2, lines 16-20 → i.e. "Drag-and-Drop" or WYSIWYG);

Art Unit: 2176

computer readable code for displaying the at least one attribute of the selected node (see Fig. 22; col. 10, lines 5 et seq. → display layout view);

computer readable code which allows the use of point and click techniques to select the visually displayed at least one attribute of the selected node (see col. 1, lines 54-58; col. 2, lines 16-20 → i.e. "Drag-and-Drop" or WYSIWYG).

computer readable code which allows the use of point and click techniques to bind the at least one attribute of the selected node to the selected region of the web page (Figs 22 and 23; col. 11, lines 53-55).

Arora does not specifically teach the computer readable code for selecting a *command* to bind the attribute(s) of the selected node. However, it was commonly known to those of ordinary skill in the art that dragging and dropping an object is essentially an all-in-one command to move and bind the selected object the region of the web page where the object is "dropped" by the user. It would have been obvious to those of ordinary skill in the art at the time the invention was made to include a selectable command for the purpose of binding an object to a particular area of the web page.

Claim 5

Arora teaches the computer readable medium wherein *the peers* (see Figs. 5(a) and 5(b) → i.e. siblings) *of the selected node have an at least one attribute and the at least second attribute* (see Fig. 7; col. 7, lines 31-45 → i.e. number, type, name, current layout, flags, siblings, parents, etc.) and *wherein computer readable code automatically binds the at least one attribute of the peers to the selected region of the web page and automatically binds the at least second attribute of the peers to the second selected*

Art Unit: 2176

region of the web page (see Figs 22 and 23; col. 1, lines 54-58; col. 2, lines 16-20; col. 11, lines 53-55 i.e. "Drag-and-Drop" or WYSIWYG).

Claim 6

Arora teaches the computer readable medium wherein the computer readable code which *allows the use of point and click techniques to select a region on the web, comprises computer readable code which allows the use of point and click techniques to select a region of a web page being displayed on a web browser* (see Figs 22 and 23; col. 1, lines 54-58; col. 2, lines 16-20; col. 11, lines 53-55 i.e. "Drag-and-Drop" or WYSIWYG).

Claim 7

Arora teaches the computer readable medium wherein the *at least one attribute is a non-visual element* (see Fig. 7; col. 7, lines 31-45 → type, flags, siblings, children, etc.).

Claim 8

Arora teaches the computer readable medium further comprising computer readable code for *dynamically changing the web page when a node to which the web page is bound is changed* (see Abstract; Fig. 4; col. 2, lines 30-33; 44-67 *et seq.*).

Claim 9

Arora teaches the computer readable medium wherein the computer readable code which *allows the use of point and click techniques to select a region on the web, comprises computer readable code which allows the use of point and click techniques to select a region of a web page being displayed on a web browser* (see Figs 22 and 23; col.

Art Unit: 2176

1, lines 54-58; col. 2, lines 16-20; col. 11, lines 53-55 i.e. "Drag-and-Drop" or WYSIWYG).

Claim 13

Arora teaches the computer readable medium wherein the computer readable code for allowing a user to bind the nodes, further comprises:

computer readable code which allows the use of *point and click techniques to select a node from the plurality of nodes* (see col. 1, lines 54-58; col. 2, lines 16-20 → i.e. "Drag-and-Drop" or WYSIWYG);

computer readable code which allows the use of point and click techniques to select bind command that binds the selected link to the selected node (see Figs. 22, 23, and 30; col. 2, lines 38-44; col. 11, lines 53-55 → user can bind attributes using a "drag-and-drop" or WYSIWYG interface and then automatically generate HTML for each page in accordance with the display elements of each page).

Arora teaches that a user does not have to manually specify links for each page because as the user drags and drops icons to add, move, and delete pages of the site hierarchy, Arora will automatically add, remove, and delete the appropriate links between the pages of the site (col. 2, lines 23-35). However, Arora also teaches the manual selection and changing of links by the user (see col. 2, lines 1-7) for the purpose of maintaining consistent and updated web pages via connected links.

It would have been obvious to those of ordinary skill in the art at the time the invention was made to allow the use of point and click techniques to select a link from a plurality of links for the purpose of maintaining consistent and updated web pages via connected links.

Claims 14 and 15

Arora teaches the computer readable medium, as recited in claim 13, wherein the computer readable code for allowing a user to bind the nodes further comprises computer readable code *for outputting items in the output list of the selected link into the attributes of the selected node and reading data into the output list of the selected link from a data source* (see Figs. 7 and 43; col. 14, lines 37-48 → outputs next sibling, next child links to node attributes).

Claim 16

Arora teaches the computer readable medium wherein the computer readable code for reading data into the output list of the selected link comprises computer code for *performing a Uniform Resource Locator (URL) read of data from the data source to the selected link* (col. 14, lines 39-48).

Claims 17 and 20

Arora teaches the selected node is a *schema node* (col. 13, lines 7-12 → node is in relation to a database system).

8. Claims 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arora et al. ("Arora"), U.S. Patent No. 5,911,145, in view of Tenev et al. ("Tenev"), U.S. Patent No. 6,108,698.

Claims 18 and 19

Arora teaches the computer readable medium recited in claim 17 as discussed above, but does not specifically teach computer readable code for executing the link by

Art Unit: 2176

generating a clone of the selected node to create an instance of the selected node, overwriting an instance of the selected node, and providing data from the link to the clone of the selected node.

However, Tenev teaches the cloning of a node to create an instance of the selected node and providing data from the link to the clone of the selected node (col. 8, lines 11-52) for the purpose of defining expanding and collapsing tree nodes and links.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the teaching of Arora with the teachings of Tenev to include computer readable code for executing the link by generating a clone of the selected node to create an instance of the selected node, overwriting an instance of the selected node, and providing data from the link to the clone of the selected node for the purpose of defining expanding and collapsing tree nodes and links.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US 6651108 B2	issued on	20031118	Popp, Nicolas et al.
US 6279015 B1	issued on	20010821	Fong, Avery et al.


10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Nguyen-Ba whose telephone number is (703) 305-8776. The examiner can normally be reached from 10 am - 6:30 pm.

Art Unit: 2176

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on (703) 305-9792. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PNB


JOSEPH FEILD
SUPERVISORY PATENT EXAMINER